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Era	Period	Epoch	NORTHWESTERN ALASKA P. S. Smith and J. B. Mertie, jr., this report.	CHANDALAR-KOYUKUK REGION J. B. Mertie, jr., U. S. Geol. Survey Bull. 773, pp. 215-263, 1925.	CANNING RIVER REGION E. de K. Leffingwell, U. S. Geol. Survey Prof. Paper 109, 1919.	PORCUPINE VALLEY REGION E. M. Kindle, Geol. Soc. America Bull., vol. 19, pp. 315-338, 1908.	EAGLE-CIRCLE DISTRICT J. B. Mertie, jr., U. S. Geol. Survey Bull. in preparation.
NOZOIC	Tertiary Quaternary	Recent Pleistocene	Sand, gravel, silt, and ice wedges or masses, of fluviatile, marine, glacial, and lacustrine origin laid down on the land and in the shai- low waters off the coast.	Sand, gravel, and silt, dominantly laid down on flood plains of present streams and on their valley slopes. Detritus derived through gla- ciation and attendant processes and widely distributed through these processes.	Sand, gravel, silt, mud, and ice wedges, of marine, fluviatile, and composite origin. Glacial and related deposits extending from Pleistocene to present.	Not described though obviously present.	Sand, gravel, silt, and mud, dominantly of fluviatile origin.
		Pliocene	Nonindurated stratified slate-colored or ash- colored calcareous sediments near mouth of Colville. Formerly treated as upper part of "Colville series."	Sedimentary deposits not recognized. Basaltic lavas and intrusive rocks.	Shale, near Collinson Point and in adjacent part of Camden Bay region. Slightly consolidated. Fossils indicate temperate climate.	Successive basaltic lava flows with intervening accumulations of soil and forest growth.	Basic intrusive and effusive rocks.
CE		Miocene Eocene	Conglomerate, sand, and shale, dominantly of terrigenous origin, containing small coal beds. Poorly consolidated except in Kobuk Valley.		Sandstone at Peard Bay. Fairly hard gray- green sandstone. Little deformed. No fossils found in these rocks.		
MESOZOIC	Cretaceous	Upper	Sandstone and shale of marine origin with some bentonite beds near top. Dominantly sandstone and shale of terrigenous origin with numerous thick coal beds. Sandstone and shale principally of marine origin. Sandstone and shale with minor beds of grit. Marine. Universally much deformed. Massive conglomerate member near base.		Not recognized.	No Mesozoic sedimentary beds recognized.	Eocene and Upper Cretaceous rocks. (Sandstone, graywacke, shale, grit, and conglomerate. Principally of nonmarine origin.)
		Lower		[Shale, sandstone, and conglomerate forming Koyukuk group in region to the south.]	(2)		Slate and sandstone typically developed along Yukon River near mouth of Kandik River.
	Jurassic	Upper Middle Lower	Sedimentary representatives believed to be absent throughout northwestern Alaska but possibly present as Corwin formation in Lisburne region.	Jurassic sedimentary rocks not recognized and probably absent. Batholiths of granodiorite and related rocks possibly intruded during this interval.	Ignek formation (Jurassic?). (Black shale with some sandstone and coal beds. In part marine; in part terrigenous deposits.) Granitic intrusions of uncertain age, Kingak shale (Lower? Jurassic). (Black shale with marine fauna.)		Jurassic sedimentary rocks not recognized and probably absent. Batholiths of granitic rocks probably intruded during this interval.
	Triassic	Upper	Chert, limestone, and shale. Marine. Highly deformed. Unknown anywhere in Alaska except from a single piece of float found in Seward Peninsula.	No Triassic rocks recognized.	Shublik formation. (Dark limestone, shale, and sandstone. Abundant marine fauna. Equally deformed with Paleozoic rocks.) Not recognized and probably absent.		Shale and thin-bedded limestone.
		Middle					Not recognized and probably absent.
		Lower	Unknown abywhere in Alaska.		(2)		(?)
2 0 1 0 2	Devonian Carboniferous	Permian Pennsylvanian	Not recognized in region but may be present and overlapped by later rocks of Mesozoic age.	recognized.	Sadlerochit sandstone. [Originally assigned to Pennsylvanian but now regarded as Permian.] Greenstone intrusive and effusive rocks.	Shale overlying limestone. [Both originally called "Upper Carboniferous." Fossils from limestone later determined to be Permian.]	Massive white limestone of Nation River. Sandstone, shale, grit, and conglomerate of Nation River. Principally nonmarine.
		Upper Mississippian	Lisburne limestone, of marine origin. (Limestone and chert)	Limestone in remote parts of Brooks Range, not critically examined.	Lisburne limestone. (Dark limestone at base overlain by light-gray limestone containing abundant fossils and some chert.)	Limestone and shale resembling similar series at Calico Bluff.	Limestone and shale of Calico Bluff, along Yukon River.
		Lower Mississippian	Noatak formation. (Sandstone and shale, principally of marine origin but contains small coal beds. Includes chert conglomerate formerly called Stuver "series.") Sandstone, grit, and shale.	Upper Devonian or Mississippian rocks, not separated. (Chert, quartzite, calcareous black shale, impure limestone, and cherty grit.) Slate and sandstone with thin limestone layers. Contains fauna of limestone at mouth of Salmontrout River.	Black shale with subordinate beds of sand- stone. Complexly folded and faulted. Neruokpuk schist. (Quartzite and quartzite schist, with some conglomeratic beds.) Metamorphism intensely greater than in any of the other rocks. Contacts with other rocks any all places fault	Quartzite, sandstone, and shale, carrying fossil plants.	Shale and chert typically developed at N. end of Calico Bluff, Rampart group, basic lava, slate, and chert.
		Upper				Brown shale with some basic lava flows.	Not recognized as sedimentary rocks. Ultra- basic intrusives possibly injected during this interval.
		Middle	Not specifically identified but probably present and included with the general group of Devonian rocks.			Salmontrout limestone. (Light-gray to blue, weathering to buff.) No angular unconformity at base.	Chert, cherty grit, and slate, along infernational boundary Basic volcanic rocks with interbedded limestone exposed at Woodchopper, on the Yukon. Limestone on international boundary containing Salmontrout fauna.
		Lower	Not recognized anywhere in Alaska and probably absent in this region.	Not recognized; probably absent.		Missing:	Missing.
EOZ	Silurian		Slate, schist, and metamorphic limestone designated undifferentiated Silurian rocks. Skajit limestone. (Metamorphosed and recrystallized limestone) 2 Early Paleozoic or older rocks: Quartzite, quartzite schist, quartzite schist, talcareous schist, carbonaceous schist, calcareous schist, carbonaceous schist, calcareous schist, phyllite, hornblende schist, albite schist, interbedded crystalline limestone, and undifferentiated basic volcanic rocks of greenstone habit. Includes part of former "Totsen series" of John River region and certain of the so-called "undifferentiated schists" of the Kobuk and Noatak Valleys. At least one strongly indicated unconformity is present, and doubtless others occur but have not been distinguished.	Silurian limestone. Crystalline and semi- crystalline limestone and dolomite.		Graptolitic shale overlying magnesian limestone and dolomite which carries Niagaran fauna.	Limestone, slate, and related rocks. Limestone of White Mountains. Massive limestone.
P A I	Ordovician	Upper`		Early Paleozoic rocks, consisting of mica schist, phyllite, carbonaceous schist, gneiss, and basic igneous rocks of greenstone habit. Includes rocks formerly called "Rapids schist" and "Lake quartzite schist"; these names subsequently abandoned.		Not recognized.	Early Silurian not recognized and possibly absent Limestone along international boundary and
		Middle				Hard bluish-gray limestone with a few collitic bands. Contains fossils of Mohawkian age.	in Ruby district. Richmond fossils. Calcareous tuff underlain by basaltic lavas and tuffs, in White Mountains. Mohawkian (?) fossils.
		Lower					Monawkian (?) fossils. Limestone and graptolitic slate, along international boundary. Normanskill fossils. Argillite and slate of White Mountains. Beekmantown fossils.
		Upper				2	Limestone along international boundary. Upper Cambrian.
	Cambrian	Middle				Pre-Ordovician rocks. Quartzite with some slate, shale, and limestone.	Limestone along international boundary. Massive limestone, underlain by argillite and thin-bedded limestone, Yukon River below Eagle. Middle and Lower Cambrian.
		Lower					Red beds, probably underlain by graywacke, conglomerate, argillite, and phyllite.
Pre-Cambrian (?)				Quartzite schist and quartzite (Birch Creek schist?).	3		Quartzite, quartzite schist, quartz-mica schist mica schist, carbonaceous and calcareous schist, sericite and chlorite schist, hornblende schist, amphibolite, and granitic gneiss.